

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331478-927

Luminaire Tested: **S122DIW-S290D970U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331478-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S290D970U927-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3695.5 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

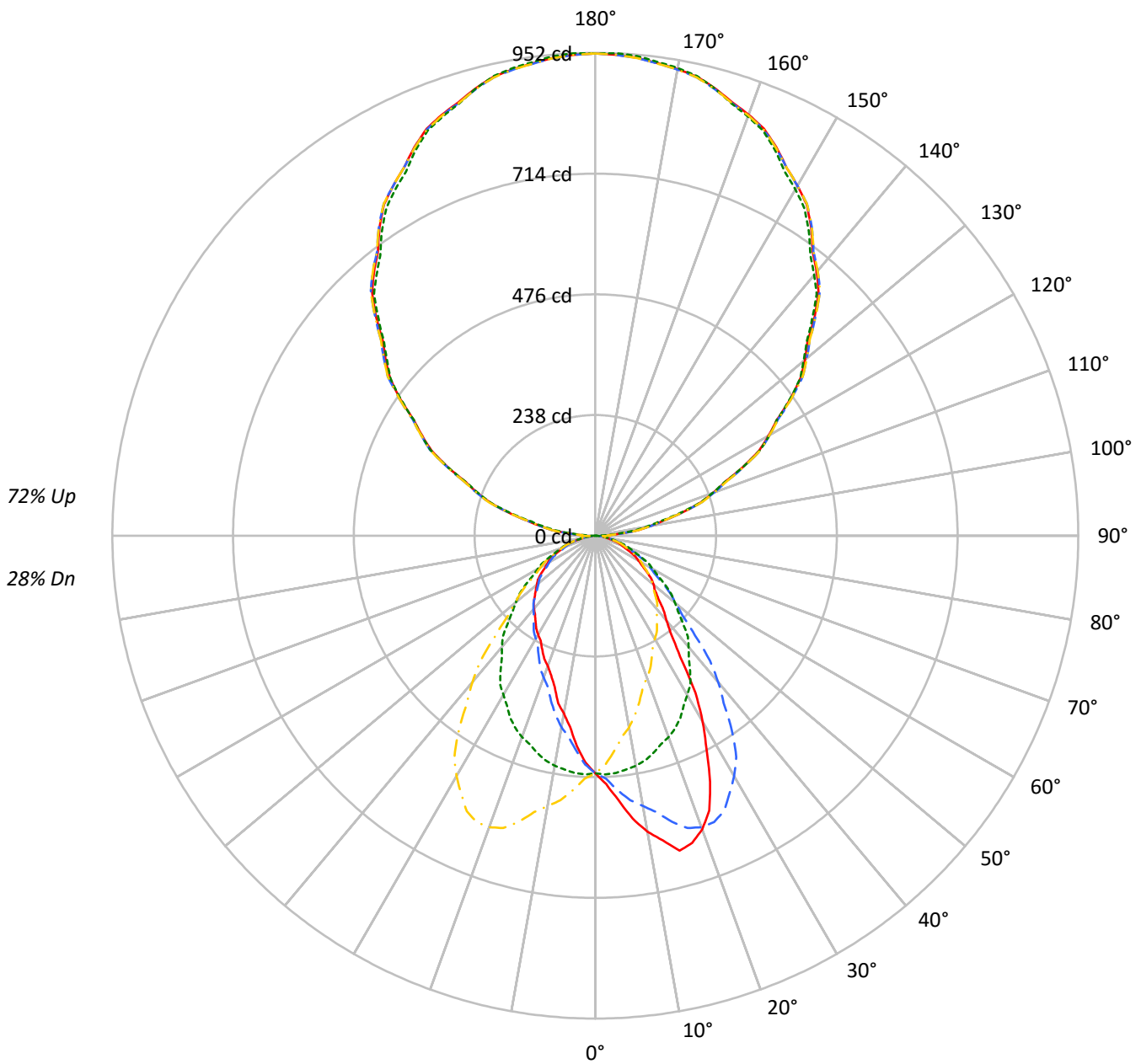
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	48	63	55	48	44	43	39	35	33	30	27	23	21	20	15
5	65	54	47	41	58	49	42	37	39	34	31	30	26	24	21	19	17	14
6	60	49	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	40	33	28	32	27	23	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	7561	7561	7561	7561
5°	8475	7609	6744	7609
10°	9712	7547	5835	7547
15°	10745	7408	5157	7408
20°	10581	7261	4699	7261
25°	9540	7062	4411	7062
30°	7884	6747	4200	6747
35°	5746	6416	4050	6416
40°	4591	6028	3967	6028
45°	4010	5576	3854	5576
50°	3770	5139	3778	5139
55°	3474	4695	3676	4695
60°	3184	4224	3523	4224
65°	2904	3801	3370	3801
70°	2634	3389	3144	3389
75°	2339	2932	2782	2932
80°	2008	2427	2241	2427
85°	1797	1797	1334	1797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.2
10°-20°	129.6	3.5
20°-30°	188.1	5.1
30°-40°	198.5	5.4
40°-50°	175.8	4.8
50°-60°	140.3	3.8
60°-70°	95.4	2.6
70°-80°	48.9	1.3
80°-90°	15.6	0.4
90°-100°	60.2	1.6
100°-110°	187.1	5.1
110°-120°	319.9	8.7
120°-130°	420.6	11.4
130°-140°	472.1	12.8
140°-150°	462.9	12.5
150°-160°	388.3	10.5
160°-170°	257.5	7.0
170°-180°	90.0	2.4
0°-30°	362.4	9.8
0°-40°	560.9	15.2
0°-60°	877.0	23.7
0°-90°	1036.8	28.1
90°-120°	567.2	15.3
90°-150°	1922.8	52.0
90°-180°	2659.0	72.0
0°-180°	3695.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	468	468	468	468	468	
5°	523	470	416	470	523	52
15°	643	443	308	443	643	177
25°	536	396	248	396	536	242
35°	292	326	206	326	292	190
45°	176	244	169	244	176	138
55°	123	167	131	167	123	111
65°	76	100	88	100	76	76
75°	38	47	45	47	38	40
85°	10	10	7	10	10	11
90°	27	1	27	1	27	12
95°	50	42	50	42	50	55
105°	178	172	178	172	178	187
115°	321	321	321	321	321	317
125°	469	467	469	467	469	418
135°	611	604	611	604	611	471
145°	741	733	741	733	741	463
155°	845	838	845	838	845	389
165°	913	912	913	912	913	258
175°	946	949	946	949	946	90
180°	951	951	951	951	951	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	489.8	490.0	490.3	488.0	487.7	487.7	485.7	483.9	481.9	479.2	479.5
5°	522.9	524.9	525.6	523.5	520.2	519.9	516.8	511.8	507.1	503.4	500.7
7.5°	562.4	563.2	561.5	558.6	556.3	551.9	546.2	540.7	532.8	525.7	520.4
10°	592.4	593.5	590.4	586.3	582.9	577.8	569.6	561.1	550.9	541.0	533.1
12.5°	615.1	617.8	613.9	613.4	607.5	600.6	590.7	586.5	572.0	558.3	549.7
15°	642.8	642.6	643.0	639.5	635.3	634.1	623.8	612.4	592.1	583.9	569.9
17.5°	634.8	637.5	638.8	638.7	638.7	637.9	634.6	627.5	617.3	604.1	588.0
20°	615.8	619.4	620.0	624.1	626.5	629.5	630.7	628.8	622.5	611.5	597.5
22.5°	586.5	587.5	589.1	595.6	600.6	608.3	612.3	619.0	616.6	611.2	599.4
25°	535.5	533.8	540.0	543.3	555.0	567.2	576.1	585.7	594.4	599.6	596.2
27.5°	474.4	471.7	481.2	489.8	499.2	512.5	526.2	542.5	556.0	572.9	578.7
30°	422.9	424.5	433.5	442.7	457.1	475.8	491.3	509.1	528.4	547.2	560.4
32.5°	367.3	373.5	379.2	393.3	406.0	426.8	449.6	471.8	495.8	517.3	537.7
35°	291.5	298.7	306.7	316.9	334.7	355.4	377.6	407.6	440.4	469.7	493.8
37.5°	245.4	244.2	248.7	256.2	270.6	287.3	312.8	342.5	381.0	415.5	449.6
40°	217.8	217.1	220.2	227.1	238.1	250.3	272.7	298.7	334.5	376.7	417.2
42.5°	198.8	199.2	201.0	205.8	213.3	223.4	240.1	262.3	295.1	334.8	378.3
45°	175.6	176.9	178.9	181.3	185.5	193.8	203.2	219.0	244.9	278.1	320.8
47.5°	159.0	159.1	161.1	163.1	165.6	170.3	178.0	187.9	206.2	233.1	270.0
50°	150.1	148.9	150.3	151.9	154.6	157.8	162.9	172.2	184.4	206.2	237.0
52.5°	139.1	139.2	140.5	141.1	143.5	146.7	151.3	157.8	168.9	185.9	211.2
55°	123.4	124.4	125.1	126.1	128.3	130.6	134.3	138.6	147.2	159.9	178.7
57.5°	108.7	109.0	109.7	111.8	113.1	115.3	118.7	122.6	128.3	137.7	151.8
60°	98.6	98.6	100.1	100.9	102.7	104.9	107.6	111.4	116.5	124.1	135.5
62.5°	89.4	89.3	89.8	91.3	92.7	94.7	97.4	100.6	105.4	112.3	121.5
65°	76.0	75.6	76.7	77.0	78.4	80.4	82.6	86.0	89.8	94.8	103.1
67.5°	63.0	63.5	64.0	64.6	65.4	67.6	69.0	71.4	74.6	78.8	84.4
70°	55.8	55.8	55.8	56.3	57.4	58.5	59.9	61.9	65.0	68.5	73.6
72.5°	47.7	48.3	48.9	48.6	49.9	50.5	52.3	53.4	56.3	58.6	63.1
75°	37.5	37.5	37.5	38.3	38.9	39.4	40.5	41.6	43.0	45.9	48.2
77.5°	28.0	27.9	28.0	28.3	28.8	29.5	29.8	30.7	32.1	33.4	35.4
80°	21.6	21.9	22.1	22.5	22.5	22.8	23.1	24.3	25.2	26.1	27.3
82.5°	16.7	16.8	16.8	16.9	17.0	17.3	17.7	18.1	18.5	19.2	20.1
85°	9.7	9.5	9.5	9.9	9.7	9.7	10.1	10.5	10.5	10.6	11.2
87.5°	9.2	9.2	9.3	9.1	9.0	9.2	9.3	9.2	9.4	9.7	9.0
90°	27.3	27.1	26.9	26.8	26.5	26.6	27.0	27.3	27.7	28.0	24.2
92.5°	26.0	26.0	25.9	25.9	25.8	25.8	25.7	25.7	25.6	25.5	24.6
95°	49.7	50.1	50.5	50.8	51.2	51.3	51.3	51.3	51.3	51.3	51.0
97.5°	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	85.6
100°	110.0	110.1	110.3	110.4	110.7	110.7	110.7	110.7	110.7	110.7	110.2
102.5°	136.9	137.0	137.2	137.4	137.6	137.6	137.4	137.4	137.2	137.0	136.3
105°	178.2	178.2	178.2	178.2	178.2	177.9	177.6	177.2	176.9	176.5	176.2
107.5°	217.0	217.8	218.6	219.4	220.2	220.5	220.5	220.3	220.1	220.0	220.0
110°	247.2	247.6	248.2	248.7	249.3	249.5	249.5	249.5	249.5	249.5	249.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	276.0	276.4	276.8	277.2	277.6	278.0	278.5	278.8	279.2	279.7	279.9
115°	320.9	321.5	322.0	322.6	323.1	323.4	323.6	323.8	324.0	324.2	324.5
117.5°	363.8	364.3	364.9	365.4	365.9	366.4	366.9	367.3	367.7	368.1	369.2
120°	394.0	394.5	395.1	395.5	396.1	396.4	396.4	396.4	396.4	396.4	397.8
122.5°	423.5	423.9	424.3	424.7	425.1	425.5	425.9	426.4	426.7	427.1	428.2
125°	468.6	468.7	469.0	469.1	469.3	469.7	470.2	470.7	471.3	471.8	472.3
127.5°	509.7	510.2	510.8	511.4	511.9	512.5	513.2	513.8	514.4	515.2	515.8
130°	539.2	539.9	540.6	541.3	542.0	542.6	543.0	543.3	543.7	544.0	544.4
132.5°	567.4	568.0	568.5	569.2	569.7	570.4	571.2	572.0	572.7	573.5	573.5
135°	611.4	612.0	612.4	613.0	613.5	613.9	614.1	614.3	614.4	614.6	614.3
137.5°	651.2	651.9	652.6	653.3	654.0	654.5	654.7	654.7	654.9	655.1	654.6
140°	678.8	679.5	680.2	681.0	681.7	682.0	682.0	682.0	682.0	682.0	681.1
142.5°	703.9	704.6	705.3	706.0	706.7	706.9	706.9	706.7	706.5	706.4	705.8
145°	741.4	742.1	742.8	743.5	744.3	744.5	744.3	744.2	743.9	743.8	742.8
147.5°	774.9	775.6	776.3	777.0	777.6	777.8	777.4	777.0	776.6	776.2	775.5
150°	796.8	797.3	797.8	798.4	798.9	798.9	798.4	797.8	797.3	796.8	796.1
152.5°	817.3	817.9	818.6	819.4	820.0	820.0	819.4	818.6	817.9	817.3	816.4
155°	844.9	845.4	846.0	846.5	847.0	846.8	846.0	845.1	844.1	843.3	842.7
157.5°	868.6	869.5	870.4	871.2	872.0	871.9	870.7	869.5	868.2	867.0	866.7
160°	883.4	884.2	884.9	885.6	886.3	886.1	885.0	883.9	882.9	881.8	881.6
162.5°	896.3	897.1	897.9	898.8	899.7	899.5	898.3	897.1	895.9	894.6	894.5
165°	913.1	914.0	914.9	915.8	916.6	916.5	915.2	914.0	912.8	911.5	911.5
167.5°	926.9	927.8	928.8	929.7	930.6	930.4	929.2	928.0	926.7	925.4	925.5
170°	934.0	935.0	936.1	937.2	938.3	938.2	936.9	935.6	934.4	933.2	933.3
172.5°	939.8	940.8	941.9	942.9	944.0	943.9	942.7	941.4	940.2	938.9	939.1
175°	946.0	947.1	948.2	949.2	950.3	950.1	949.0	947.7	946.4	945.2	945.5
177.5°	948.9	949.7	950.6	951.4	952.3	952.3	951.4	950.6	949.7	948.9	949.2
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	480.5	479.3	478.6	476.0	473.7	471.4	470.7	471.0	467.8	464.8	463.5
5°	499.2	495.6	492.2	487.4	481.6	475.2	472.1	469.5	463.2	456.4	452.4
7.5°	515.9	510.8	504.2	495.1	486.7	476.8	470.5	464.9	455.7	446.1	440.1
10°	526.2	519.2	510.7	499.6	489.3	477.2	468.8	460.3	449.6	438.0	430.8
12.5°	535.0	525.5	517.2	502.9	490.8	475.6	465.6	453.7	442.4	428.6	421.6
15°	555.9	538.4	522.6	506.4	491.5	470.4	459.2	443.2	428.3	411.4	403.3
17.5°	572.0	552.4	527.5	506.9	489.5	466.1	449.8	430.6	413.0	393.6	382.6
20°	581.2	558.7	532.0	507.5	486.6	459.9	442.1	422.6	401.9	380.1	368.2
22.5°	586.7	563.1	536.5	505.3	480.9	455.0	432.5	411.0	390.1	366.5	354.1
25°	588.4	566.9	538.8	503.5	473.6	444.3	417.3	396.4	371.1	349.1	331.0
27.5°	579.9	564.4	537.4	500.1	465.3	431.0	400.9	377.3	350.5	326.7	308.4
30°	569.3	560.4	534.1	496.7	458.7	421.8	388.7	361.9	335.3	311.2	292.4
32.5°	553.1	551.2	528.1	491.8	451.6	410.2	375.9	348.8	319.2	295.6	277.7
35°	521.2	529.8	515.2	480.9	438.4	393.6	356.5	325.5	294.9	272.3	255.6
37.5°	478.3	499.8	496.0	464.9	420.4	375.5	334.5	302.2	273.1	250.2	233.8
40°	448.8	476.2	480.1	452.6	407.8	361.6	318.1	286.0	257.5	236.6	220.1
42.5°	417.2	449.1	459.9	437.9	394.0	346.8	303.5	270.1	241.9	221.7	207.0
45°	364.1	406.3	426.0	413.4	370.9	322.7	278.1	244.2	218.6	199.6	188.2
47.5°	314.4	360.6	387.0	382.5	345.2	297.5	253.3	220.9	196.0	180.8	170.6
50°	279.3	326.8	358.6	360.1	326.8	279.5	235.2	204.6	181.7	167.5	159.2
52.5°	248.7	294.1	328.8	336.5	306.2	260.8	219.0	188.5	168.3	155.3	147.9
55°	208.9	247.2	285.7	299.8	275.5	232.3	193.6	166.8	147.9	138.9	132.5
57.5°	173.7	205.7	241.2	256.7	241.8	204.8	168.5	145.2	129.9	122.0	117.0
60°	155.1	180.3	212.0	230.5	217.5	184.7	153.0	130.8	118.2	111.2	106.5
62.5°	137.8	160.2	187.0	203.9	196.9	165.8	137.4	117.9	107.0	100.4	97.0
65°	113.8	131.3	152.1	167.7	163.0	139.5	116.2	99.5	90.9	85.6	82.9
67.5°	93.6	106.4	120.7	134.4	130.7	114.0	95.4	82.3	75.9	71.4	69.7
70°	81.0	90.7	103.5	114.5	111.4	97.8	82.9	71.8	66.2	62.4	60.8
72.5°	68.9	76.8	86.7	95.6	93.6	82.1	69.9	61.5	57.1	53.6	52.4
75°	52.0	58.1	64.1	70.0	69.5	60.7	53.5	47.0	43.6	40.9	40.3
77.5°	38.4	41.8	45.9	49.4	48.4	43.3	37.7	34.0	31.5	29.7	29.4
80°	29.3	31.3	34.2	36.7	35.5	33.3	28.8	26.1	24.3	22.5	21.8
82.5°	21.3	23.2	25.0	26.4	25.3	23.4	20.6	18.8	17.7	16.5	16.2
85°	11.2	12.2	13.0	13.3	13.0	11.7	10.5	9.7	8.8	8.2	8.1
87.5°	8.4	7.6	6.8	6.5	5.6	5.2	4.2	3.3	3.6	3.9	4.0
90°	20.2	16.3	12.4	9.3	7.2	5.1	2.9	0.8	2.9	5.1	7.2
92.5°	23.7	22.7	21.8	20.6	19.0	17.4	15.8	14.3	15.8	17.4	19.0
95°	50.6	50.3	49.9	48.9	47.1	45.3	43.5	41.7	43.5	45.3	47.1
97.5°	85.0	84.3	83.7	82.5	81.0	79.4	77.8	76.2	77.8	79.4	81.0
100°	109.6	109.1	108.6	107.6	106.2	104.7	103.3	101.9	103.3	104.7	106.2
102.5°	135.7	135.0	134.4	133.4	132.3	131.1	130.0	128.9	130.0	131.1	132.3
105°	175.8	175.5	175.1	174.7	174.1	173.6	173.0	172.5	173.0	173.6	174.1
107.5°	220.0	220.0	220.0	219.6	218.8	218.0	217.3	216.5	217.3	218.0	218.8
110°	249.5	249.5	249.5	249.0	248.0	246.8	245.8	244.7	245.8	246.8	248.0





TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.0	280.1	280.3	279.8	278.8	277.7	276.6	275.5	276.6	277.7	278.8
115°	324.9	325.2	325.6	325.2	324.2	323.1	322.0	320.9	322.0	323.1	324.2
117.5°	370.1	371.1	372.1	371.9	370.5	369.1	367.7	366.2	367.7	369.1	370.5
120°	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4	397.8	399.3	400.7
122.5°	429.2	430.2	431.2	430.8	429.1	427.4	425.7	424.0	425.7	427.4	429.1
125°	472.9	473.4	474.0	473.4	471.8	470.2	468.6	467.0	468.6	470.2	471.8
127.5°	516.4	517.1	517.7	517.0	515.0	512.9	510.9	508.9	510.9	512.9	515.0
130°	544.7	545.1	545.4	544.5	542.2	539.8	537.5	535.2	537.5	539.8	542.2
132.5°	573.4	573.3	573.2	572.3	570.4	568.5	566.6	564.7	566.6	568.5	570.4
135°	613.9	613.5	613.1	612.0	610.1	608.1	606.2	604.2	606.2	608.1	610.1
137.5°	654.1	653.6	653.2	652.1	650.5	649.0	647.4	645.7	647.4	649.0	650.5
140°	680.2	679.4	678.4	677.2	675.6	674.0	672.4	670.7	672.4	674.0	675.6
142.5°	705.2	704.6	704.0	702.9	701.2	699.7	698.1	696.5	698.1	699.7	701.2
145°	741.6	740.6	739.5	738.4	737.1	735.9	734.6	733.3	734.6	735.9	737.1
147.5°	774.8	774.0	773.3	772.2	770.7	769.3	767.8	766.3	767.8	769.3	770.7
150°	795.4	794.6	793.9	793.0	791.9	790.8	789.8	788.7	789.8	790.8	791.9
152.5°	815.6	814.8	813.9	812.9	811.8	810.8	809.7	808.7	809.7	810.8	811.8
155°	842.2	841.7	841.1	840.6	840.1	839.6	839.0	838.4	839.0	839.6	840.1
157.5°	866.4	866.1	865.8	865.4	865.1	864.7	864.4	864.0	864.4	864.7	865.1
160°	881.5	881.3	881.1	880.8	880.4	880.1	879.7	879.4	879.7	880.1	880.4
162.5°	894.3	894.1	893.9	893.8	893.7	893.7	893.6	893.5	893.6	893.7	893.7
165°	911.5	911.5	911.5	911.6	911.7	912.0	912.1	912.3	912.1	912.0	911.7
167.5°	925.5	925.6	925.6	925.9	926.4	926.9	927.5	928.0	927.5	926.9	926.4
170°	933.5	933.7	933.9	934.2	934.8	935.3	935.8	936.4	935.8	935.3	934.8
172.5°	939.3	939.4	939.6	940.0	940.6	941.0	941.6	942.1	941.6	941.0	940.6
175°	945.9	946.3	946.6	947.1	947.6	948.2	948.6	949.2	948.6	948.2	947.6
177.5°	949.4	949.7	950.0	950.4	950.8	951.3	951.6	952.1	951.6	951.3	950.8
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	462.1	461.2	458.2	456.6	454.0	451.5	450.0	450.7	451.2	451.0	450.5
5°	448.8	445.4	440.1	435.7	432.5	426.5	424.0	422.7	421.6	420.4	419.1
7.5°	433.0	427.6	420.2	413.8	407.7	400.3	396.1	393.6	391.0	388.2	385.6
10°	421.8	414.2	406.3	397.4	390.1	383.5	377.6	373.6	369.9	366.5	364.1
12.5°	410.0	401.3	391.5	379.2	371.3	361.7	360.8	353.9	348.2	346.1	343.2
15°	391.3	379.0	366.5	352.0	345.7	337.1	331.7	326.2	321.4	318.0	317.1
17.5°	369.9	354.0	341.7	331.2	320.9	312.0	307.0	302.8	298.7	294.2	293.6
20°	353.6	339.9	326.5	317.3	306.7	297.6	291.5	287.2	283.8	281.1	278.8
22.5°	338.2	323.2	310.9	300.9	290.4	283.1	278.3	274.1	271.2	268.3	266.1
25°	313.5	301.8	288.3	276.9	268.3	263.6	259.7	256.1	254.3	252.3	249.8
27.5°	291.8	278.8	266.3	257.5	249.9	245.7	242.9	240.4	238.8	237.6	236.1
30°	276.6	263.5	253.6	244.9	238.6	234.5	232.7	231.2	229.3	228.5	227.8
32.5°	261.9	250.1	241.6	234.1	228.1	225.4	223.8	222.4	220.9	220.2	218.7
35°	241.1	231.2	223.0	218.8	214.0	211.6	210.4	208.6	207.2	206.4	206.2
37.5°	221.6	213.0	207.6	202.2	200.2	198.8	197.0	195.8	195.4	195.3	195.0
40°	208.9	201.9	197.0	192.7	191.9	189.6	188.2	187.2	187.2	187.4	187.2
42.5°	197.4	191.1	186.8	183.1	182.0	180.8	179.3	179.3	179.5	180.1	179.5
45°	180.0	175.5	172.4	170.6	168.7	167.4	167.2	167.7	167.9	168.1	168.7
47.5°	163.9	160.9	158.1	156.1	155.3	155.1	154.9	155.8	156.7	157.0	157.8
50°	154.4	151.0	148.6	147.3	146.6	146.3	146.6	147.7	148.5	149.3	149.9
52.5°	143.8	141.3	139.7	138.7	138.5	138.7	138.7	140.0	141.1	141.5	141.7
55°	129.0	127.2	126.9	125.2	126.0	125.8	126.7	127.4	128.5	129.6	129.8
57.5°	114.3	112.9	111.9	112.1	112.3	113.1	113.8	115.1	116.2	117.4	117.5
60°	104.6	103.9	103.3	103.3	103.6	104.7	105.6	106.9	107.6	108.4	108.8
62.5°	95.6	94.9	94.3	94.7	95.6	96.3	97.3	98.0	98.7	99.4	99.7
65°	81.5	81.2	81.7	82.1	82.2	83.1	84.4	84.9	85.6	86.0	87.3
67.5°	68.5	68.6	68.5	69.0	70.1	70.3	71.5	72.7	72.9	73.6	74.4
70°	59.7	60.1	60.4	60.8	61.7	62.1	63.0	63.5	64.2	64.8	65.4
72.5°	51.7	51.7	52.1	52.0	52.8	53.6	54.3	54.9	55.6	56.3	56.8
75°	39.8	39.8	40.2	40.3	41.2	42.1	41.9	42.3	43.0	43.7	44.1
77.5°	29.1	28.7	29.1	29.2	29.5	30.3	30.4	30.9	31.8	31.5	31.9
80°	22.1	21.6	22.1	22.3	22.3	23.2	23.2	23.6	24.1	23.6	24.1
82.5°	15.8	15.5	15.9	16.0	16.2	16.3	16.6	16.6	17.2	17.0	17.2
85°	7.9	7.8	7.9	7.8	7.9	8.1	8.1	7.9	7.9	8.2	7.8
87.5°	4.4	4.8	5.4	6.2	6.8	7.5	7.3	7.2	7.1	6.7	6.7
90°	9.3	12.4	16.3	20.2	24.2	28.0	27.7	27.3	27.0	26.6	26.5
92.5°	20.6	21.8	22.7	23.7	24.6	25.5	25.6	25.7	25.7	25.8	25.8
95°	48.9	49.9	50.3	50.6	51.0	51.3	51.3	51.3	51.3	51.3	51.2
97.5°	82.5	83.7	84.3	85.0	85.6	86.3	86.3	86.3	86.3	86.3	86.3
100°	107.6	108.6	109.1	109.6	110.2	110.7	110.7	110.7	110.7	110.7	110.7
102.5°	133.4	134.4	135.0	135.7	136.3	137.0	137.2	137.4	137.4	137.6	137.6
105°	174.7	175.1	175.5	175.8	176.2	176.5	176.9	177.2	177.6	177.9	178.2
107.5°	219.6	220.0	220.0	220.0	220.0	220.0	220.1	220.3	220.5	220.5	220.2
110°	249.0	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.5	249.3



TEST NUMBER: P331478-927

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	279.8	280.3	280.1	280.0	279.9	279.7	279.2	278.8	278.5	278.0	277.6
115°	325.2	325.6	325.2	324.9	324.5	324.2	324.0	323.8	323.6	323.4	323.1
117.5°	371.9	372.1	371.1	370.1	369.2	368.1	367.7	367.3	366.9	366.4	365.9
120°	402.1	402.1	400.7	399.3	397.8	396.4	396.4	396.4	396.4	396.4	396.1
122.5°	430.8	431.2	430.2	429.2	428.2	427.1	426.7	426.4	425.9	425.5	425.1
125°	473.4	474.0	473.4	472.9	472.3	471.8	471.3	470.7	470.2	469.7	469.3
127.5°	517.0	517.7	517.1	516.4	515.8	515.2	514.4	513.8	513.2	512.5	511.9
130°	544.5	545.4	545.1	544.7	544.4	544.0	543.7	543.3	543.0	542.6	542.0
132.5°	572.3	573.2	573.3	573.4	573.5	573.5	572.7	572.0	571.2	570.4	569.7
135°	612.0	613.1	613.5	613.9	614.3	614.6	614.4	614.3	614.1	613.9	613.5
137.5°	652.1	653.2	653.6	654.1	654.6	655.1	654.9	654.7	654.7	654.5	654.0
140°	677.2	678.4	679.4	680.2	681.1	682.0	682.0	682.0	682.0	682.0	681.7
142.5°	702.9	704.0	704.6	705.2	705.8	706.4	706.5	706.7	706.9	706.9	706.7
145°	738.4	739.5	740.6	741.6	742.8	743.8	743.9	744.2	744.3	744.5	744.3
147.5°	772.2	773.3	774.0	774.8	775.5	776.2	776.6	777.0	777.4	777.8	777.6
150°	793.0	793.9	794.6	795.4	796.1	796.8	797.3	797.8	798.4	798.9	798.9
152.5°	812.9	813.9	814.8	815.6	816.4	817.3	817.9	818.6	819.4	820.0	820.0
155°	840.6	841.1	841.7	842.2	842.7	843.3	844.1	845.1	846.0	846.8	847.0
157.5°	865.4	865.8	866.1	866.4	866.7	867.0	868.2	869.5	870.7	871.9	872.0
160°	880.8	881.1	881.3	881.5	881.6	881.8	882.9	883.9	885.0	886.1	886.3
162.5°	893.8	893.9	894.1	894.3	894.5	894.6	895.9	897.1	898.3	899.5	899.7
165°	911.6	911.5	911.5	911.5	911.5	911.5	912.8	914.0	915.2	916.5	916.6
167.5°	925.9	925.6	925.6	925.5	925.5	925.4	926.7	928.0	929.2	930.4	930.6
170°	934.2	933.9	933.7	933.5	933.3	933.2	934.4	935.6	936.9	938.2	938.3
172.5°	940.0	939.6	939.4	939.3	939.1	938.9	940.2	941.4	942.7	943.9	944.0
175°	947.1	946.6	946.3	945.9	945.5	945.2	946.4	947.7	949.0	950.1	950.3
177.5°	950.4	950.0	949.7	949.4	949.2	948.9	949.7	950.6	951.4	952.3	952.3
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	449.1	448.8	448.8	447.5	448.8	448.8	449.1	450.5	451.0	451.2	450.7
5°	416.6	416.1	415.2	416.1	415.2	416.1	416.6	419.1	420.4	421.6	422.7
7.5°	384.4	382.3	382.0	379.9	382.0	382.3	384.4	385.6	388.2	391.0	393.6
10°	361.0	359.6	359.3	355.9	359.3	359.6	361.0	364.1	366.5	369.9	373.6
12.5°	343.2	339.7	340.4	338.4	340.4	339.7	343.2	343.2	346.1	348.2	353.9
15°	312.2	312.2	311.5	308.5	311.5	312.2	312.2	317.1	318.0	321.4	326.2
17.5°	290.0	289.6	288.0	288.8	288.0	289.6	290.0	293.6	294.2	298.7	302.8
20°	276.8	275.7	273.5	273.5	273.5	275.7	276.8	278.8	281.1	283.8	287.2
22.5°	264.3	264.2	261.9	262.6	261.9	264.2	264.3	266.1	268.3	271.2	274.1
25°	249.6	248.2	247.1	247.6	247.1	248.2	249.6	249.8	252.3	254.3	256.1
27.5°	235.7	234.9	234.8	233.4	234.8	234.9	235.7	236.1	237.6	238.8	240.4
30°	227.7	225.9	226.2	225.3	226.2	225.9	227.7	227.8	228.5	229.3	231.2
32.5°	218.4	217.8	217.5	216.7	217.5	217.8	218.4	218.7	220.2	220.9	222.4
35°	205.9	206.0	205.2	205.5	205.2	206.0	205.9	206.2	206.4	207.2	208.6
37.5°	194.9	195.4	195.0	195.1	195.0	195.4	194.9	195.0	195.3	195.4	195.8
40°	187.7	187.7	187.7	188.2	187.7	187.7	187.7	187.2	187.4	187.2	187.2
42.5°	180.8	180.5	180.2	180.1	180.2	180.5	180.8	179.5	180.1	179.5	179.3
45°	169.0	169.5	169.7	168.8	169.7	169.5	169.0	168.7	168.1	167.9	167.7
47.5°	158.3	158.4	158.3	159.1	158.3	158.4	158.3	157.8	157.0	156.7	155.8
50°	150.8	150.4	150.8	150.4	150.8	150.4	150.8	149.9	149.3	148.5	147.7
52.5°	142.9	143.0	142.8	142.7	142.8	143.0	142.9	141.7	141.5	141.1	140.0
55°	130.5	130.8	130.6	130.6	130.6	130.8	130.5	129.8	129.6	128.5	127.4
57.5°	117.6	118.0	118.2	117.4	118.2	118.0	117.6	117.5	117.4	116.2	115.1
60°	108.7	109.6	109.4	109.1	109.4	109.6	108.7	108.8	108.4	107.6	106.9
62.5°	100.4	100.8	100.8	100.7	100.8	100.8	100.4	99.7	99.4	98.7	98.0
65°	87.9	88.2	87.6	88.2	87.6	88.2	87.9	87.3	86.0	85.6	84.9
67.5°	74.1	74.3	74.7	74.9	74.7	74.3	74.1	74.4	73.6	72.9	72.7
70°	65.7	65.5	66.1	66.6	66.1	65.5	65.7	65.4	64.8	64.2	63.5
72.5°	56.7	57.1	57.0	57.4	57.0	57.1	56.7	56.8	56.3	55.6	54.9
75°	43.7	44.3	44.1	44.6	44.1	44.3	43.7	44.1	43.7	43.0	42.3
77.5°	31.6	31.7	31.6	31.9	31.6	31.7	31.6	31.9	31.5	31.8	30.9
80°	24.1	23.8	23.4	24.1	23.4	23.8	24.1	24.1	23.6	24.1	23.6
82.5°	16.8	17.0	16.6	16.6	16.6	17.0	16.8	17.2	17.0	17.2	16.6
85°	7.8	7.5	7.2	7.2	7.2	7.5	7.8	7.8	8.2	7.9	7.9
87.5°	6.8	6.7	6.7	6.6	6.7	6.7	6.8	6.7	6.7	7.1	7.2
90°	26.8	26.9	27.1	27.3	27.1	26.9	26.8	26.5	26.6	27.0	27.3
92.5°	25.9	25.9	26.0	26.0	26.0	25.9	25.9	25.8	25.8	25.7	25.7
95°	50.8	50.5	50.1	49.7	50.1	50.5	50.8	51.2	51.3	51.3	51.3
97.5°	86.3	86.3	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3
100°	110.4	110.3	110.1	110.0	110.1	110.3	110.4	110.7	110.7	110.7	110.7
102.5°	137.4	137.2	137.0	136.9	137.0	137.2	137.4	137.6	137.6	137.4	137.4
105°	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2	177.9	177.6	177.2
107.5°	219.4	218.6	217.8	217.0	217.8	218.6	219.4	220.2	220.5	220.5	220.3
110°	248.7	248.2	247.6	247.2	247.6	248.2	248.7	249.3	249.5	249.5	249.5



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	277.2	276.8	276.4	276.0	276.4	276.8	277.2	277.6	278.0	278.5	278.8
115°	322.6	322.0	321.5	320.9	321.5	322.0	322.6	323.1	323.4	323.6	323.8
117.5°	365.4	364.9	364.3	363.8	364.3	364.9	365.4	365.9	366.4	366.9	367.3
120°	395.5	395.1	394.5	394.0	394.5	395.1	395.5	396.1	396.4	396.4	396.4
122.5°	424.7	424.3	423.9	423.5	423.9	424.3	424.7	425.1	425.5	425.9	426.4
125°	469.1	469.0	468.7	468.6	468.7	469.0	469.1	469.3	469.7	470.2	470.7
127.5°	511.4	510.8	510.2	509.7	510.2	510.8	511.4	511.9	512.5	513.2	513.8
130°	541.3	540.6	539.9	539.2	539.9	540.6	541.3	542.0	542.6	543.0	543.3
132.5°	569.2	568.5	568.0	567.4	568.0	568.5	569.2	569.7	570.4	571.2	572.0
135°	613.0	612.4	612.0	611.4	612.0	612.4	613.0	613.5	613.9	614.1	614.3
137.5°	653.3	652.6	651.9	651.2	651.9	652.6	653.3	654.0	654.5	654.7	654.7
140°	681.0	680.2	679.5	678.8	679.5	680.2	681.0	681.7	682.0	682.0	682.0
142.5°	706.0	705.3	704.6	703.9	704.6	705.3	706.0	706.7	706.9	706.9	706.7
145°	743.5	742.8	742.1	741.4	742.1	742.8	743.5	744.3	744.5	744.3	744.2
147.5°	777.0	776.3	775.6	774.9	775.6	776.3	777.0	777.6	777.8	777.4	777.0
150°	798.4	797.8	797.3	796.8	797.3	797.8	798.4	798.9	798.9	798.4	797.8
152.5°	819.4	818.6	817.9	817.3	817.9	818.6	819.4	820.0	820.0	819.4	818.6
155°	846.5	846.0	845.4	844.9	845.4	846.0	846.5	847.0	846.8	846.0	845.1
157.5°	871.2	870.4	869.5	868.6	869.5	870.4	871.2	872.0	871.9	870.7	869.5
160°	885.6	884.9	884.2	883.4	884.2	884.9	885.6	886.3	886.1	885.0	883.9
162.5°	898.8	897.9	897.1	896.3	897.1	897.9	898.8	899.7	899.5	898.3	897.1
165°	915.8	914.9	914.0	913.1	914.0	914.9	915.8	916.6	916.5	915.2	914.0
167.5°	929.7	928.8	927.8	926.9	927.8	928.8	929.7	930.6	930.4	929.2	928.0
170°	937.2	936.1	935.0	934.0	935.0	936.1	937.2	938.3	938.2	936.9	935.6
172.5°	942.9	941.9	940.8	939.8	940.8	941.9	942.9	944.0	943.9	942.7	941.4
175°	949.2	948.2	947.1	946.0	947.1	948.2	949.2	950.3	950.1	949.0	947.7
177.5°	951.4	950.6	949.7	948.9	949.7	950.6	951.4	952.3	952.3	951.4	950.6
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	450.0	451.5	454.0	456.6	458.2	461.2	462.1	463.5	464.8	467.8	471.0
5°	424.0	426.5	432.5	435.7	440.1	445.4	448.8	452.4	456.4	463.2	469.5
7.5°	396.1	400.3	407.7	413.8	420.2	427.6	433.0	440.1	446.1	455.7	464.9
10°	377.6	383.5	390.1	397.4	406.3	414.2	421.8	430.8	438.0	449.6	460.3
12.5°	360.8	361.7	371.3	379.2	391.5	401.3	410.0	421.6	428.6	442.4	453.7
15°	331.7	337.1	345.7	352.0	366.5	379.0	391.3	403.3	411.4	428.3	443.2
17.5°	307.0	312.0	320.9	331.2	341.7	354.0	369.9	382.6	393.6	413.0	430.6
20°	291.5	297.6	306.7	317.3	326.5	339.9	353.6	368.2	380.1	401.9	422.6
22.5°	278.3	283.1	290.4	300.9	310.9	323.2	338.2	354.1	366.5	390.1	411.0
25°	259.7	263.6	268.3	276.9	288.3	301.8	313.5	331.0	349.1	371.1	396.4
27.5°	242.9	245.7	249.9	257.5	266.3	278.8	291.8	308.4	326.7	350.5	377.3
30°	232.7	234.5	238.6	244.9	253.6	263.5	276.6	292.4	311.2	335.3	361.9
32.5°	223.8	225.4	228.1	234.1	241.6	250.1	261.9	277.7	295.6	319.2	348.8
35°	210.4	211.6	214.0	218.8	223.0	231.2	241.1	255.6	272.3	294.9	325.5
37.5°	197.0	198.8	200.2	202.2	207.6	213.0	221.6	233.8	250.2	273.1	302.2
40°	188.2	189.6	191.9	192.7	197.0	201.9	208.9	220.1	236.6	257.5	286.0
42.5°	179.3	180.8	182.0	183.1	186.8	191.1	197.4	207.0	221.7	241.9	270.1
45°	167.2	167.4	168.7	170.6	172.4	175.5	180.0	188.2	199.6	218.6	244.2
47.5°	154.9	155.1	155.3	156.1	158.1	160.9	163.9	170.6	180.8	196.0	220.9
50°	146.6	146.3	146.6	147.3	148.6	151.0	154.4	159.2	167.5	181.7	204.6
52.5°	138.7	138.7	138.5	138.7	139.7	141.3	143.8	147.9	155.3	168.3	188.5
55°	126.7	125.8	126.0	125.2	126.9	127.2	129.0	132.5	138.9	147.9	166.8
57.5°	113.8	113.1	112.3	112.1	111.9	112.9	114.3	117.0	122.0	129.9	145.2
60°	105.6	104.7	103.6	103.3	103.3	103.9	104.6	106.5	111.2	118.2	130.8
62.5°	97.3	96.3	95.6	94.7	94.3	94.9	95.6	97.0	100.4	107.0	117.9
65°	84.4	83.1	82.2	82.1	81.7	81.2	81.5	82.9	85.6	90.9	99.5
67.5°	71.5	70.3	70.1	69.0	68.5	68.6	68.5	69.7	71.4	75.9	82.3
70°	63.0	62.1	61.7	60.8	60.4	60.1	59.7	60.8	62.4	66.2	71.8
72.5°	54.3	53.6	52.8	52.0	52.1	51.7	51.7	52.4	53.6	57.1	61.5
75°	41.9	42.1	41.2	40.3	40.2	39.8	39.8	40.3	40.9	43.6	47.0
77.5°	30.4	30.3	29.5	29.2	29.1	28.7	29.1	29.4	29.7	31.5	34.0
80°	23.2	23.2	22.3	22.3	22.1	21.6	22.1	21.8	22.5	24.3	26.1
82.5°	16.6	16.3	16.2	16.0	15.9	15.5	15.8	16.2	16.5	17.7	18.8
85°	8.1	8.1	7.9	7.8	7.9	7.8	7.9	8.1	8.2	8.8	9.7
87.5°	7.3	7.5	6.8	6.2	5.4	4.8	4.4	4.0	3.9	3.6	3.3
90°	27.7	28.0	24.2	20.2	16.3	12.4	9.3	7.2	5.1	2.9	0.8
92.5°	25.6	25.5	24.6	23.7	22.7	21.8	20.6	19.0	17.4	15.8	14.3
95°	51.3	51.3	51.0	50.6	50.3	49.9	48.9	47.1	45.3	43.5	41.7
97.5°	86.3	86.3	85.6	85.0	84.3	83.7	82.5	81.0	79.4	77.8	76.2
100°	110.7	110.7	110.2	109.6	109.1	108.6	107.6	106.2	104.7	103.3	101.9
102.5°	137.2	137.0	136.3	135.7	135.0	134.4	133.4	132.3	131.1	130.0	128.9
105°	176.9	176.5	176.2	175.8	175.5	175.1	174.7	174.1	173.6	173.0	172.5
107.5°	220.1	220.0	220.0	220.0	220.0	220.0	219.6	218.8	218.0	217.3	216.5
110°	249.5	249.5	249.5	249.5	249.5	249.5	249.0	248.0	246.8	245.8	244.7



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	279.2	279.7	279.9	280.0	280.1	280.3	279.8	278.8	277.7	276.6	275.5
115°	324.0	324.2	324.5	324.9	325.2	325.6	325.2	324.2	323.1	322.0	320.9
117.5°	367.7	368.1	369.2	370.1	371.1	372.1	371.9	370.5	369.1	367.7	366.2
120°	396.4	396.4	397.8	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4
122.5°	426.7	427.1	428.2	429.2	430.2	431.2	430.8	429.1	427.4	425.7	424.0
125°	471.3	471.8	472.3	472.9	473.4	474.0	473.4	471.8	470.2	468.6	467.0
127.5°	514.4	515.2	515.8	516.4	517.1	517.7	517.0	515.0	512.9	510.9	508.9
130°	543.7	544.0	544.4	544.7	545.1	545.4	544.5	542.2	539.8	537.5	535.2
132.5°	572.7	573.5	573.5	573.4	573.3	573.2	572.3	570.4	568.5	566.6	564.7
135°	614.4	614.6	614.3	613.9	613.5	613.1	612.0	610.1	608.1	606.2	604.2
137.5°	654.9	655.1	654.6	654.1	653.6	653.2	652.1	650.5	649.0	647.4	645.7
140°	682.0	682.0	681.1	680.2	679.4	678.4	677.2	675.6	674.0	672.4	670.7
142.5°	706.5	706.4	705.8	705.2	704.6	704.0	702.9	701.2	699.7	698.1	696.5
145°	743.9	743.8	742.8	741.6	740.6	739.5	738.4	737.1	735.9	734.6	733.3
147.5°	776.6	776.2	775.5	774.8	774.0	773.3	772.2	770.7	769.3	767.8	766.3
150°	797.3	796.8	796.1	795.4	794.6	793.9	793.0	791.9	790.8	789.8	788.7
152.5°	817.9	817.3	816.4	815.6	814.8	813.9	812.9	811.8	810.8	809.7	808.7
155°	844.1	843.3	842.7	842.2	841.7	841.1	840.6	840.1	839.6	839.0	838.4
157.5°	868.2	867.0	866.7	866.4	866.1	865.8	865.4	865.1	864.7	864.4	864.0
160°	882.9	881.8	881.6	881.5	881.3	881.1	880.8	880.4	880.1	879.7	879.4
162.5°	895.9	894.6	894.5	894.3	894.1	893.9	893.8	893.7	893.7	893.6	893.5
165°	912.8	911.5	911.5	911.5	911.5	911.5	911.6	911.7	912.0	912.1	912.3
167.5°	926.7	925.4	925.5	925.5	925.6	925.6	925.9	926.4	926.9	927.5	928.0
170°	934.4	933.2	933.3	933.5	933.7	933.9	934.2	934.8	935.3	935.8	936.4
172.5°	940.2	938.9	939.1	939.3	939.4	939.6	940.0	940.6	941.0	941.6	942.1
175°	946.4	945.2	945.5	945.9	946.3	946.6	947.1	947.6	948.2	948.6	949.2
177.5°	949.7	948.9	949.2	949.4	949.7	950.0	950.4	950.8	951.3	951.6	952.1
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	470.7	471.4	473.7	476.0	478.6	479.3	480.5	479.5	479.2	481.9	483.9
5°	472.1	475.2	481.6	487.4	492.2	495.6	499.2	500.7	503.4	507.1	511.8
7.5°	470.5	476.8	486.7	495.1	504.2	510.8	515.9	520.4	525.7	532.8	540.7
10°	468.8	477.2	489.3	499.6	510.7	519.2	526.2	533.1	541.0	550.9	561.1
12.5°	465.6	475.6	490.8	502.9	517.2	525.5	535.0	549.7	558.3	572.0	586.5
15°	459.2	470.4	491.5	506.4	522.6	538.4	555.9	569.9	583.9	592.1	612.4
17.5°	449.8	466.1	489.5	506.9	527.5	552.4	572.0	588.0	604.1	617.3	627.5
20°	442.1	459.9	486.6	507.5	532.0	558.7	581.2	597.5	611.5	622.5	628.8
22.5°	432.5	455.0	480.9	505.3	536.5	563.1	586.7	599.4	611.2	616.6	619.0
25°	417.3	444.3	473.6	503.5	538.8	566.9	588.4	596.2	599.6	594.4	585.7
27.5°	400.9	431.0	465.3	500.1	537.4	564.4	579.9	578.7	572.9	556.0	542.5
30°	388.7	421.8	458.7	496.7	534.1	560.4	569.3	560.4	547.2	528.4	509.1
32.5°	375.9	410.2	451.6	491.8	528.1	551.2	553.1	537.7	517.3	495.8	471.8
35°	356.5	393.6	438.4	480.9	515.2	529.8	521.2	493.8	469.7	440.4	407.6
37.5°	334.5	375.5	420.4	464.9	496.0	499.8	478.3	449.6	415.5	381.0	342.5
40°	318.1	361.6	407.8	452.6	480.1	476.2	448.8	417.2	376.7	334.5	298.7
42.5°	303.5	346.8	394.0	437.9	459.9	449.1	417.2	378.3	334.8	295.1	262.3
45°	278.1	322.7	370.9	413.4	426.0	406.3	364.1	320.8	278.1	244.9	219.0
47.5°	253.3	297.5	345.2	382.5	387.0	360.6	314.4	270.0	233.1	206.2	187.9
50°	235.2	279.5	326.8	360.1	358.6	326.8	279.3	237.0	206.2	184.4	172.2
52.5°	219.0	260.8	306.2	336.5	328.8	294.1	248.7	211.2	185.9	168.9	157.8
55°	193.6	232.3	275.5	299.8	285.7	247.2	208.9	178.7	159.9	147.2	138.6
57.5°	168.5	204.8	241.8	256.7	241.2	205.7	173.7	151.8	137.7	128.3	122.6
60°	153.0	184.7	217.5	230.5	212.0	180.3	155.1	135.5	124.1	116.5	111.4
62.5°	137.4	165.8	196.9	203.9	187.0	160.2	137.8	121.5	112.3	105.4	100.6
65°	116.2	139.5	163.0	167.7	152.1	131.3	113.8	103.1	94.8	89.8	86.0
67.5°	95.4	114.0	130.7	134.4	120.7	106.4	93.6	84.4	78.8	74.6	71.4
70°	82.9	97.8	111.4	114.5	103.5	90.7	81.0	73.6	68.5	65.0	61.9
72.5°	69.9	82.1	93.6	95.6	86.7	76.8	68.9	63.1	58.6	56.3	53.4
75°	53.5	60.7	69.5	70.0	64.1	58.1	52.0	48.2	45.9	43.0	41.6
77.5°	37.7	43.3	48.4	49.4	45.9	41.8	38.4	35.4	33.4	32.1	30.7
80°	28.8	33.3	35.5	36.7	34.2	31.3	29.3	27.3	26.1	25.2	24.3
82.5°	20.6	23.4	25.3	26.4	25.0	23.2	21.3	20.1	19.2	18.5	18.1
85°	10.5	11.7	13.0	13.3	13.0	12.2	11.2	11.2	10.6	10.5	10.5
87.5°	4.2	5.2	5.6	6.5	6.8	7.6	8.4	9.0	9.7	9.4	9.2
90°	2.9	5.1	7.2	9.3	12.4	16.3	20.2	24.2	28.0	27.7	27.3
92.5°	15.8	17.4	19.0	20.6	21.8	22.7	23.7	24.6	25.5	25.6	25.7
95°	43.5	45.3	47.1	48.9	49.9	50.3	50.6	51.0	51.3	51.3	51.3
97.5°	77.8	79.4	81.0	82.5	83.7	84.3	85.0	85.6	86.3	86.3	86.3
100°	103.3	104.7	106.2	107.6	108.6	109.1	109.6	110.2	110.7	110.7	110.7
102.5°	130.0	131.1	132.3	133.4	134.4	135.0	135.7	136.3	137.0	137.2	137.4
105°	173.0	173.6	174.1	174.7	175.1	175.5	175.8	176.2	176.5	176.9	177.2
107.5°	217.3	218.0	218.8	219.6	220.0	220.0	220.0	220.0	220.0	220.1	220.3
110°	245.8	246.8	248.0	249.0	249.5	249.5	249.5	249.5	249.5	249.5	249.5





TEST NUMBER: P331478-927

CATALOG NUMBER: S122DIW-S290D970U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	276.6	277.7	278.8	279.8	280.3	280.1	280.0	279.9	279.7	279.2	278.8
115°	322.0	323.1	324.2	325.2	325.6	325.2	324.9	324.5	324.2	324.0	323.8
117.5°	367.7	369.1	370.5	371.9	372.1	371.1	370.1	369.2	368.1	367.7	367.3
120°	397.8	399.3	400.7	402.1	402.1	400.7	399.3	397.8	396.4	396.4	396.4
122.5°	425.7	427.4	429.1	430.8	431.2	430.2	429.2	428.2	427.1	426.7	426.4
125°	468.6	470.2	471.8	473.4	474.0	473.4	472.9	472.3	471.8	471.3	470.7
127.5°	510.9	512.9	515.0	517.0	517.7	517.1	516.4	515.8	515.2	514.4	513.8
130°	537.5	539.8	542.2	544.5	545.4	545.1	544.7	544.4	544.0	543.7	543.3
132.5°	566.6	568.5	570.4	572.3	573.2	573.3	573.4	573.5	573.5	572.7	572.0
135°	606.2	608.1	610.1	612.0	613.1	613.5	613.9	614.3	614.6	614.4	614.3
137.5°	647.4	649.0	650.5	652.1	653.2	653.6	654.1	654.6	655.1	654.9	654.7
140°	672.4	674.0	675.6	677.2	678.4	679.4	680.2	681.1	682.0	682.0	682.0
142.5°	698.1	699.7	701.2	702.9	704.0	704.6	705.2	705.8	706.4	706.5	706.7
145°	734.6	735.9	737.1	738.4	739.5	740.6	741.6	742.8	743.8	743.9	744.2
147.5°	767.8	769.3	770.7	772.2	773.3	774.0	774.8	775.5	776.2	776.6	777.0
150°	789.8	790.8	791.9	793.0	793.9	794.6	795.4	796.1	796.8	797.3	797.8
152.5°	809.7	810.8	811.8	812.9	813.9	814.8	815.6	816.4	817.3	817.9	818.6
155°	839.0	839.6	840.1	840.6	841.1	841.7	842.2	842.7	843.3	844.1	845.1
157.5°	864.4	864.7	865.1	865.4	865.8	866.1	866.4	866.7	867.0	868.2	869.5
160°	879.7	880.1	880.4	880.8	881.1	881.3	881.5	881.6	881.8	882.9	883.9
162.5°	893.6	893.7	893.7	893.8	893.9	894.1	894.3	894.5	894.6	895.9	897.1
165°	912.1	912.0	911.7	911.6	911.5	911.5	911.5	911.5	911.5	912.8	914.0
167.5°	927.5	926.9	926.4	925.9	925.6	925.6	925.5	925.5	925.4	926.7	928.0
170°	935.8	935.3	934.8	934.2	933.9	933.7	933.5	933.3	933.2	934.4	935.6
172.5°	941.6	941.0	940.6	940.0	939.6	939.4	939.3	939.1	938.9	940.2	941.4
175°	948.6	948.2	947.6	947.1	946.6	946.3	945.9	945.5	945.2	946.4	947.7
177.5°	951.6	951.3	950.8	950.4	950.0	949.7	949.4	949.2	948.9	949.7	950.6
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8	950.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	485.7	487.7	487.7	488.0	490.3	490.0	489.8
5°	516.8	519.9	520.2	523.5	525.6	524.9	522.9
7.5°	546.2	551.9	556.3	558.6	561.5	563.2	562.4
10°	569.6	577.8	582.9	586.3	590.4	593.5	592.4
12.5°	590.7	600.6	607.5	613.4	613.9	617.8	615.1
15°	623.8	634.1	635.3	639.5	643.0	642.6	642.8
17.5°	634.6	637.9	638.7	638.7	638.8	637.5	634.8
20°	630.7	629.5	626.5	624.1	620.0	619.4	615.8
22.5°	612.3	608.3	600.6	595.6	589.1	587.5	586.5
25°	576.1	567.2	555.0	543.3	540.0	533.8	535.5
27.5°	526.2	512.5	499.2	489.8	481.2	471.7	474.4
30°	491.3	475.8	457.1	442.7	433.5	424.5	422.9
32.5°	449.6	426.8	406.0	393.3	379.2	373.5	367.3
35°	377.6	355.4	334.7	316.9	306.7	298.7	291.5
37.5°	312.8	287.3	270.6	256.2	248.7	244.2	245.4
40°	272.7	250.3	238.1	227.1	220.2	217.1	217.8
42.5°	240.1	223.4	213.3	205.8	201.0	199.2	198.8
45°	203.2	193.8	185.5	181.3	178.9	176.9	175.6
47.5°	178.0	170.3	165.6	163.1	161.1	159.1	159.0
50°	162.9	157.8	154.6	151.9	150.3	148.9	150.1
52.5°	151.3	146.7	143.5	141.1	140.5	139.2	139.1
55°	134.3	130.6	128.3	126.1	125.1	124.4	123.4
57.5°	118.7	115.3	113.1	111.8	109.7	109.0	108.7
60°	107.6	104.9	102.7	100.9	100.1	98.6	98.6
62.5°	97.4	94.7	92.7	91.3	89.8	89.3	89.4
65°	82.6	80.4	78.4	77.0	76.7	75.6	76.0
67.5°	69.0	67.6	65.4	64.6	64.0	63.5	63.0
70°	59.9	58.5	57.4	56.3	55.8	55.8	55.8
72.5°	52.3	50.5	49.9	48.6	48.9	48.3	47.7
75°	40.5	39.4	38.9	38.3	37.5	37.5	37.5
77.5°	29.8	29.5	28.8	28.3	28.0	27.9	28.0
80°	23.1	22.8	22.5	22.5	22.1	21.9	21.6
82.5°	17.7	17.3	17.0	16.9	16.8	16.8	16.7
85°	10.1	9.7	9.7	9.9	9.5	9.5	9.7
87.5°	9.3	9.2	9.0	9.1	9.3	9.2	9.2
90°	27.0	26.6	26.5	26.8	26.9	27.1	27.3
92.5°	25.7	25.8	25.8	25.9	25.9	26.0	26.0
95°	51.3	51.3	51.2	50.8	50.5	50.1	49.7
97.5°	86.3	86.3	86.3	86.3	86.3	86.2	86.2
100°	110.7	110.7	110.7	110.4	110.3	110.1	110.0
102.5°	137.4	137.6	137.6	137.4	137.2	137.0	136.9
105°	177.6	177.9	178.2	178.2	178.2	178.2	178.2
107.5°	220.5	220.5	220.2	219.4	218.6	217.8	217.0
110°	249.5	249.5	249.3	248.7	248.2	247.6	247.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	278.5	278.0	277.6	277.2	276.8	276.4	276.0
115°	323.6	323.4	323.1	322.6	322.0	321.5	320.9
117.5°	366.9	366.4	365.9	365.4	364.9	364.3	363.8
120°	396.4	396.4	396.1	395.5	395.1	394.5	394.0
122.5°	425.9	425.5	425.1	424.7	424.3	423.9	423.5
125°	470.2	469.7	469.3	469.1	469.0	468.7	468.6
127.5°	513.2	512.5	511.9	511.4	510.8	510.2	509.7
130°	543.0	542.6	542.0	541.3	540.6	539.9	539.2
132.5°	571.2	570.4	569.7	569.2	568.5	568.0	567.4
135°	614.1	613.9	613.5	613.0	612.4	612.0	611.4
137.5°	654.7	654.5	654.0	653.3	652.6	651.9	651.2
140°	682.0	682.0	681.7	681.0	680.2	679.5	678.8
142.5°	706.9	706.9	706.7	706.0	705.3	704.6	703.9
145°	744.3	744.5	744.3	743.5	742.8	742.1	741.4
147.5°	777.4	777.8	777.6	777.0	776.3	775.6	774.9
150°	798.4	798.9	798.9	798.4	797.8	797.3	796.8
152.5°	819.4	820.0	820.0	819.4	818.6	817.9	817.3
155°	846.0	846.8	847.0	846.5	846.0	845.4	844.9
157.5°	870.7	871.9	872.0	871.2	870.4	869.5	868.6
160°	885.0	886.1	886.3	885.6	884.9	884.2	883.4
162.5°	898.3	899.5	899.7	898.8	897.9	897.1	896.3
165°	915.2	916.5	916.6	915.8	914.9	914.0	913.1
167.5°	929.2	930.4	930.6	929.7	928.8	927.8	926.9
170°	936.9	938.2	938.3	937.2	936.1	935.0	934.0
172.5°	942.7	943.9	944.0	942.9	941.9	940.8	939.8
175°	949.0	950.1	950.3	949.2	948.2	947.1	946.0
177.5°	951.4	952.3	952.3	951.4	950.6	949.7	948.9
180°	950.8	950.8	950.8	950.8	950.8	950.8	950.8

(END OF REPORT)